

# NBC-R4OC/3,0-BC5/R4OC - Patch cable



1227563

<https://www.phoenixcontact.com/gb/products/1227563>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Patch cable, degree of protection: IP20, cable length: 3 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## Your advantages

- Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- Worldwide approval with CE, UL, WEEE, and EAC
- Secure connection and disconnection with reliable locking clip protection
- Ideal EMC properties, thanks to 360° shielding
- Simultaneous power transmission with PoE++
- High-speed data transmission with up to 1 Gbps (CAT5)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1227563       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | ABNABG        |
| Product key                          | ABNABG        |
| GTIN                                 | 4063151321932 |
| Weight per piece (including packing) | 149.5 g       |
| Weight per piece (excluding packing) | 145.7 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | CN            |

# NBC-R4OC/3,0-BC5/R4OC - Patch cable



1227563

<https://www.phoenixcontact.com/gb/products/1227563>

## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Sensor type         | Ethernet                |
| Number of positions | 8                       |
| Shielded            | yes                     |
| Cable outlet        | straight                |

### Insulation characteristics

|                      |   |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution  | 2 |

### Electrical properties

|                       |        |
|-----------------------|--------|
| Rated voltage (III/2) | 72 V   |
| Transmission medium   | Copper |
| Power transmission    | PoE++  |

### Mechanical properties

#### Mechanical data

|                                     |         |
|-------------------------------------|---------|
| Insertion force per signal contact  | 30.00 N |
| Extraction force per signal contact | 50 N    |

### Material specifications

|                                        |       |
|----------------------------------------|-------|
| Flammability rating according to UL 94 | V0    |
| Contact material                       | Brass |
| Contact surface material               | Au    |
| Contact carrier material               | PC    |
| Outer sheath, material                 | LSZH  |

### Dimensions

|        |         |
|--------|---------|
| Width  | 11.6 mm |
| Height | 14.8 mm |
| Length | 40 mm   |

### Connection data

#### Connection technology

|                   |                   |
|-------------------|-------------------|
| Connection method | Pierce connection |
|-------------------|-------------------|

#### Conductor connection

|                   |                   |
|-------------------|-------------------|
| Connection method | Pierce connection |
|-------------------|-------------------|

### Connector

# NBC-R4OC/3,0-BC5/R4OC - Patch cable



1227563

<https://www.phoenixcontact.com/gb/products/1227563>

## Connection 1

|                                 |                    |
|---------------------------------|--------------------|
| Type                            | Plug straight RJ45 |
| Shielded                        | yes                |
| Handle color                    | gray               |
| Insertion/withdrawal cycles     | ≥ 750              |
| Degree of protection            | IP20               |
| Ambient temperature (operation) | -20 °C ... 80 °C   |

## Connection 2

|                                 |                    |
|---------------------------------|--------------------|
| Type                            | Plug straight RJ45 |
| Shielded                        | yes                |
| Handle color                    | gray               |
| Insertion/withdrawal cycles     | ≥ 750              |
| Degree of protection            | IP20               |
| Ambient temperature (operation) | -20 °C ... 80 °C   |

## Cable/line

|              |        |
|--------------|--------|
| Cable length | 3.00 m |
|--------------|--------|

## Ethernet, Type B, 8-pos., CAT5, LSZH [BC5]

|                                            |                                      |
|--------------------------------------------|--------------------------------------|
| Shielded                                   | yes                                  |
| Cable type                                 | Ethernet, Type B, 8-pos., CAT5, LSZH |
| Cable type (abbreviation)                  | BC5                                  |
| Cable structure                            | 2x2xAWG26/7, S/UTP                   |
| External cable diameter                    | 5.70 mm ±0.3 mm                      |
| Outer sheath, material                     | LSZH                                 |
| External sheath, color                     | gray                                 |
| Thickness, outer sheath                    | approx. 0.70 mm                      |
| Conductor material                         | Bare Cu litz wires                   |
| Conductor structure signal line            | 7x 0.16 mm                           |
| AWG signal line                            | 26                                   |
| Material wire insulation                   | PE                                   |
| Single wire, number of litz wires          | 8                                    |
| Wire diameter incl. insulation             | 0.85 mm                              |
| Single wire, cross section [AWG]           | 26                                   |
| Shielding                                  | S/UTP                                |
| Optical shield covering                    | 70 %                                 |
| Cable insulation resistance                | ≥ 5000 MΩ*km                         |
| Wave impedance                             | 100 Ω                                |
| Loop resistance                            | ≤ 148.00 Ω/km                        |
| Minimum bending radius, fixed installation | 8 x D                                |
| Near end crosstalk attenuation (NEXT)      | 65.3 dB (with 1 MHz)                 |
|                                            | 56.3 dB (at 4 MHz)                   |
|                                            | 50.3 dB (at 10 MHz)                  |

# NBC-R4OC/3,0-BC5/R4OC - Patch cable



1227563

<https://www.phoenixcontact.com/gb/products/1227563>

|                                                        |                                                 |
|--------------------------------------------------------|-------------------------------------------------|
|                                                        | 47.2 dB (at 16 MHz)                             |
|                                                        | 45.8 dB (at 20 MHz)                             |
|                                                        | 42.9 dB (at 31.25 MHz)                          |
|                                                        | 38.4 dB (at 62.5 MHz)                           |
|                                                        | 35.3 dB (at 100 MHz)                            |
| Power-summated near end crosstalk attenuation (PSNEXT) | 62.3 dB (with 1 MHz)                            |
|                                                        | 53.3 dB (at 4 MHz)                              |
|                                                        | 48.8 dB (at 8 MHz)                              |
|                                                        | 47.3 dB (at 10 MHz)                             |
|                                                        | 44.2 dB (at 16 MHz)                             |
|                                                        | 42.8 dB (at 20 MHz)                             |
|                                                        | 41.3 dB (at 25 MHz)                             |
|                                                        | 39.9 dB (at 31.25 MHz)                          |
|                                                        | 35.4 dB (at 62.5 MHz)                           |
| Return attenuation (RL)                                | 32.3 dB (at 100 MHz)                            |
|                                                        | 20 dB (with 1 MHz)                              |
|                                                        | 23 dB (at 4 MHz)                                |
|                                                        | 24.5 dB (at 8 MHz)                              |
|                                                        | 25 dB (at 10 MHz)                               |
|                                                        | 25 dB (at 16 MHz)                               |
|                                                        | 25 dB (at 20 MHz)                               |
|                                                        | 24.2 dB (at 25 MHz)                             |
|                                                        | 23.3 dB (at 31.25 MHz)                          |
| Halogen-free                                           | 20.7 dB (at 62.5 MHz)                           |
|                                                        | 19 dB (at 100 MHz)                              |
|                                                        | complying with IEC 60754-1/2                    |
| Flame resistance                                       | IEC 60332-1-2/IEC 60332-3-24/CM                 |
| Ambient temperature (operation)                        | -20 °C ... 80 °C (Cable, flexible installation) |
|                                                        | -20 °C ... 80 °C (cable, fixed installation)    |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation)         | -20 °C ... 80 °C |
| Ambient temperature (storage/transport) | 0 °C ... 40 °C   |

## Standards and regulations

|                  |               |
|------------------|---------------|
| Flame resistance | IEC 60332-1-2 |
|------------------|---------------|

# NBC-R4OC/3,0-BC5/R4OC - Patch cable



1227563

<https://www.phoenixcontact.com/gb/products/1227563>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1227563>



**EAC**  
Approval ID: 19060508



**UL Listed**  
Approval ID: FILE E 335024



**cUL Listed**  
Approval ID: FILE E 335024

**cULus Listed**

# NBC-R4OC/3,0-BC5/R4OC - Patch cable



1227563

<https://www.phoenixcontact.com/gb/products/1227563>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060308 |
| ECLASS-12.0 | 27060308 |
| ECLASS-13.0 | 27060307 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002599 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

# NBC-R4OC/3,0-BC5/R4OC - Patch cable



1227563

<https://www.phoenixcontact.com/gb/products/1227563>

## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

# NBC-R4OC/3,0-BC5/R4OC - Patch cable



1227563

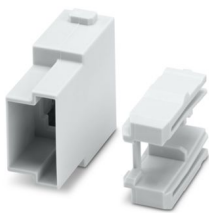
<https://www.phoenixcontact.com/gb/products/1227563>

## Accessories

### HC-M-RJ45-AD-PC2-M - Contact insert module

1435214

<https://www.phoenixcontact.com/gb/products/1435214>



Contact insert module, adapter for patch cables, the matching patch cables can be found in the accessories list

---

### NBC-R4OC/0,3-BC5/R4OC - Patch cable

1227558

<https://www.phoenixcontact.com/gb/products/1227558>



Patch cable, degree of protection: IP20, cable length: 0.3 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/3,0-BC5/R4OC - Patch cable

1227563

<https://www.phoenixcontact.com/gb/products/1227563>



## NBC-R4OC/0,5-BC5/R4OC - Patch cable

1227559

<https://www.phoenixcontact.com/gb/products/1227559>



Patch cable, degree of protection: IP20, cable length: 0.5 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

---

## NBC-R4OC/1,0-BC5/R4OC - Patch cable

1227560

<https://www.phoenixcontact.com/gb/products/1227560>



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/3,0-BC5/R4OC - Patch cable

1227563

<https://www.phoenixcontact.com/gb/products/1227563>



## NBC-R4OC/1,5-BC5/R4OC - Patch cable

1227561

<https://www.phoenixcontact.com/gb/products/1227561>



Patch cable, degree of protection: IP20, cable length: 1.5 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

---

## NBC-R4OC/2,0-BC5/R4OC - Patch cable

1227562

<https://www.phoenixcontact.com/gb/products/1227562>



Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/3,0-BC5/R4OC - Patch cable

1227563

<https://www.phoenixcontact.com/gb/products/1227563>



## NBC-R4OC/5,0-BC5/R4OC - Patch cable

1227564

<https://www.phoenixcontact.com/gb/products/1227564>



Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

---

## NBC-R4OC/7,5-BC5/R4OC - Patch cable

1227565

<https://www.phoenixcontact.com/gb/products/1227565>



Patch cable, degree of protection: IP20, cable length: 7.5 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/3,0-BC5/R4OC - Patch cable

1227563

<https://www.phoenixcontact.com/gb/products/1227563>



## NBC-R4OC/0,3-BC6A/R4OC - Patch cable

1227572

<https://www.phoenixcontact.com/gb/products/1227572>



Patch cable, degree of protection: IP20, cable length: 0.3 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

---

## NBC-R4OC/0,5-BC6A/R4OC - Patch cable

1227573

<https://www.phoenixcontact.com/gb/products/1227573>



Patch cable, degree of protection: IP20, cable length: 0.5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/3,0-BC5/R4OC - Patch cable

1227563

<https://www.phoenixcontact.com/gb/products/1227563>



## NBC-R4OC/1,0-BC6A/R4OC - Patch cable

1227575

<https://www.phoenixcontact.com/gb/products/1227575>



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

---

## NBC-R4OC/1,5-BC6A/R4OC - Patch cable

1227578

<https://www.phoenixcontact.com/gb/products/1227578>



Patch cable, degree of protection: IP20, cable length: 1.5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/3,0-BC5/R4OC - Patch cable

1227563

<https://www.phoenixcontact.com/gb/products/1227563>



## NBC-R4OC/2,0-BC6A/R4OC - Patch cable

1227580

<https://www.phoenixcontact.com/gb/products/1227580>



Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

---

## NBC-R4OC/3,0-BC6A/R4OC - Patch cable

1227581

<https://www.phoenixcontact.com/gb/products/1227581>



Patch cable, degree of protection: IP20, cable length: 3 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/3,0-BC5/R4OC - Patch cable

1227563

<https://www.phoenixcontact.com/gb/products/1227563>



## NBC-R4OC/5,0-BC6A/R4OC - Patch cable

1227583

<https://www.phoenixcontact.com/gb/products/1227583>



Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

---

## NBC-R4OC/7,5-BC6A/R4OC - Patch cable

1227585

<https://www.phoenixcontact.com/gb/products/1227585>



Patch cable, degree of protection: IP20, cable length: 7.5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/3,0-BC5/R4OC - Patch cable

1227563

<https://www.phoenixcontact.com/gb/products/1227563>



## NBC-R4OC/10,0-BC6A/R4OC - Patch cable

1227588

<https://www.phoenixcontact.com/gb/products/1227588>



Patch cable, degree of protection: IP20, cable length: 10 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/12,5-BC6A/R4OC - Patch cable

1227590

<https://www.phoenixcontact.com/gb/products/1227590>



Patch cable, degree of protection: IP20, cable length: 12.5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)